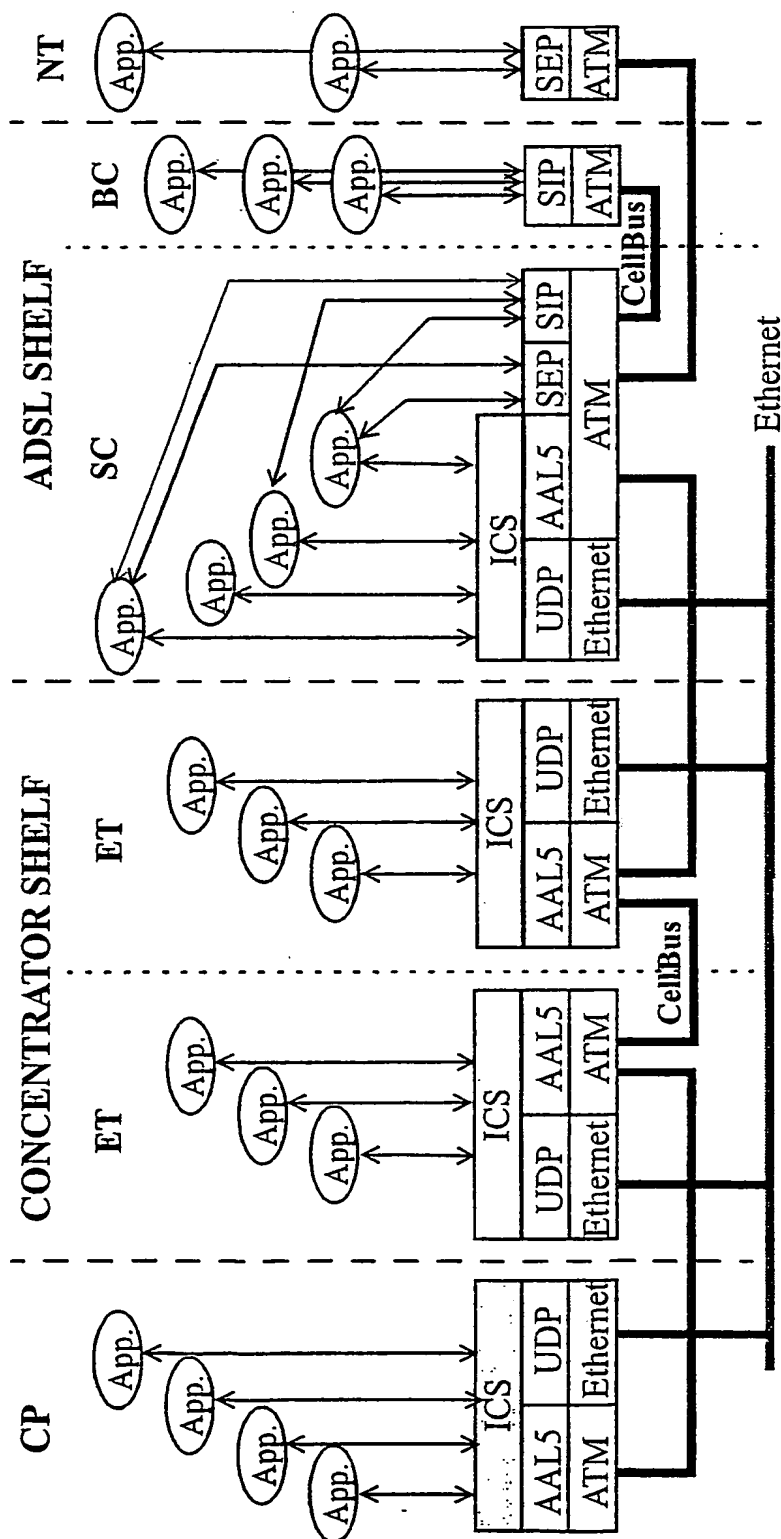


FIG. 1



ET = Exchange Terminal
 CP = Central Processor
 BC = Board Controller
 NT = Network Terminal

FIG. 2

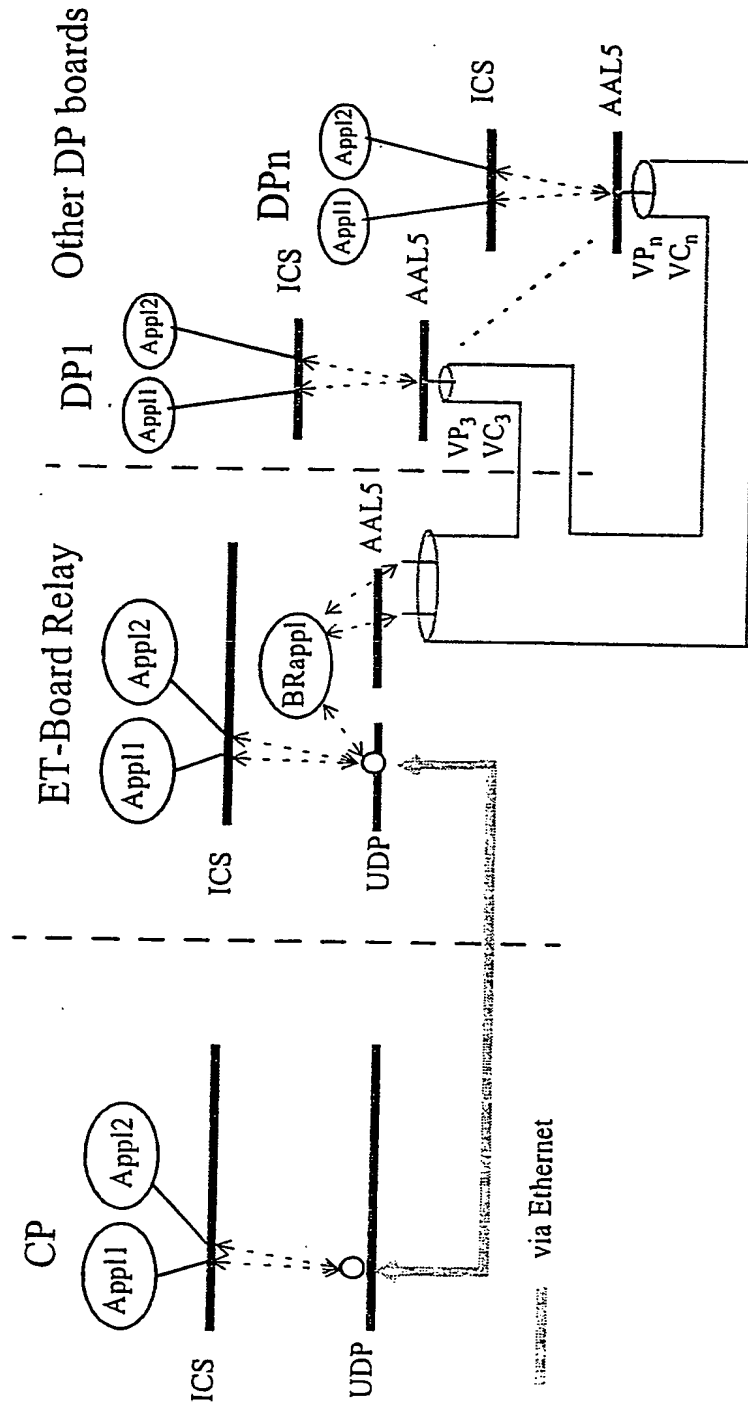


FIG. 3

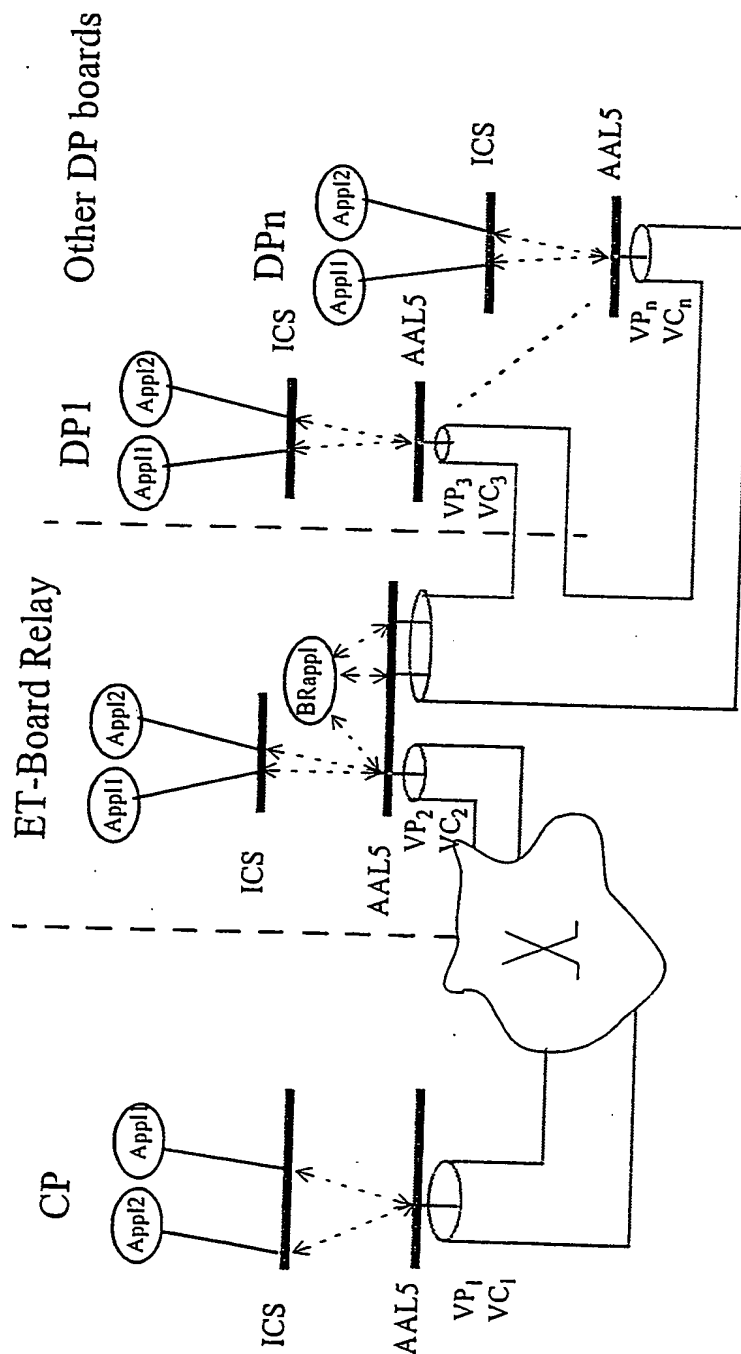


FIG. 4

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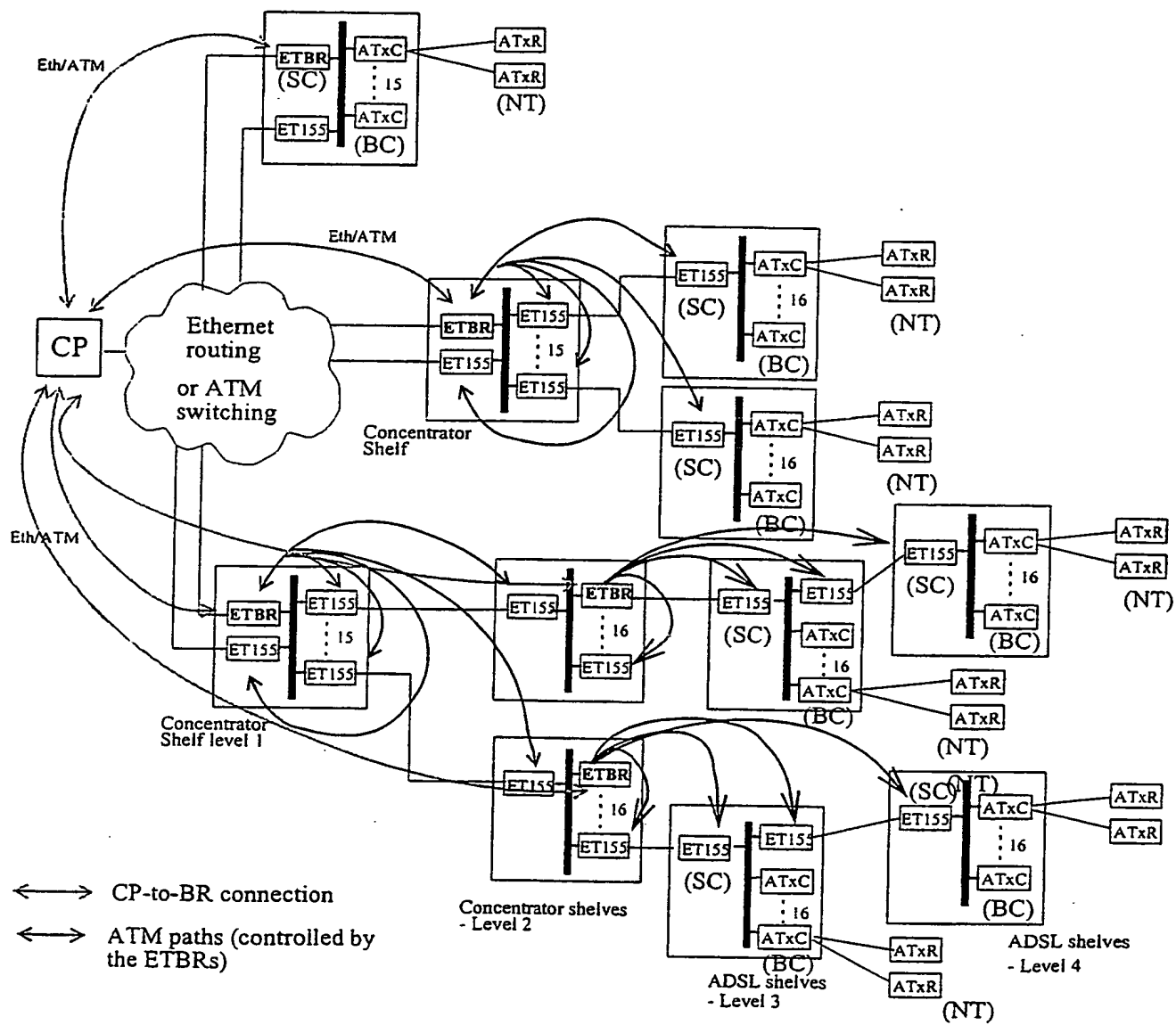
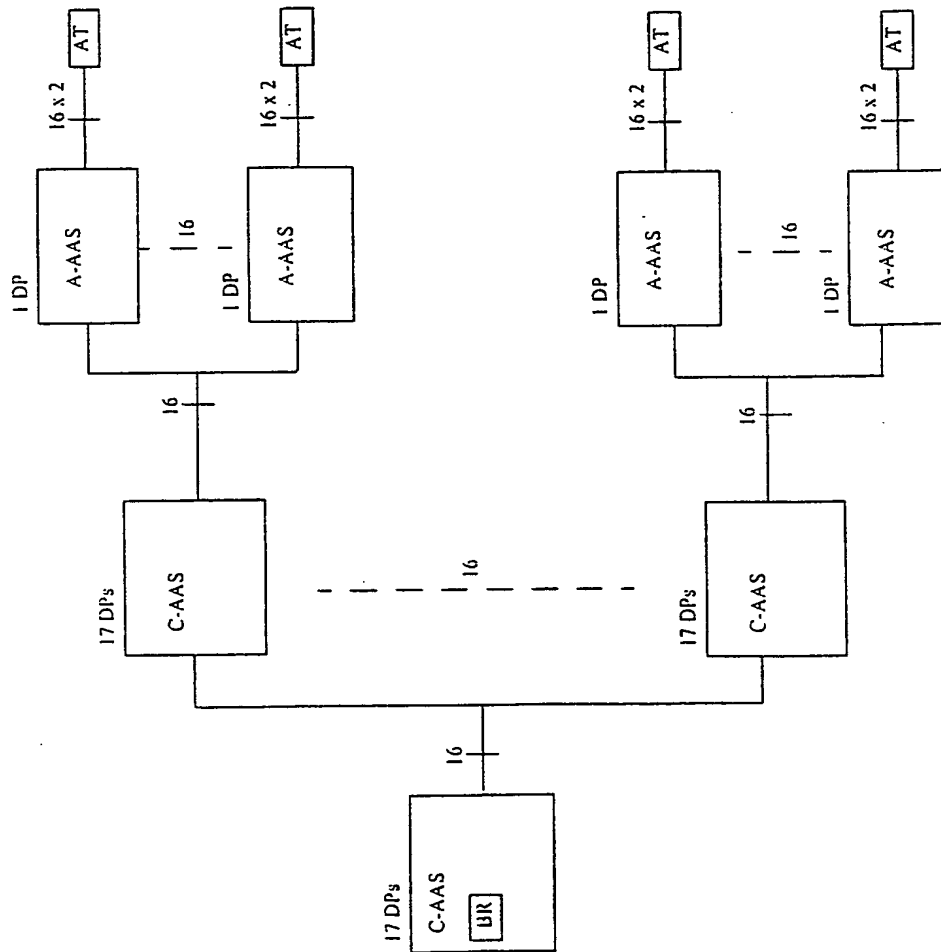


FIG. 5

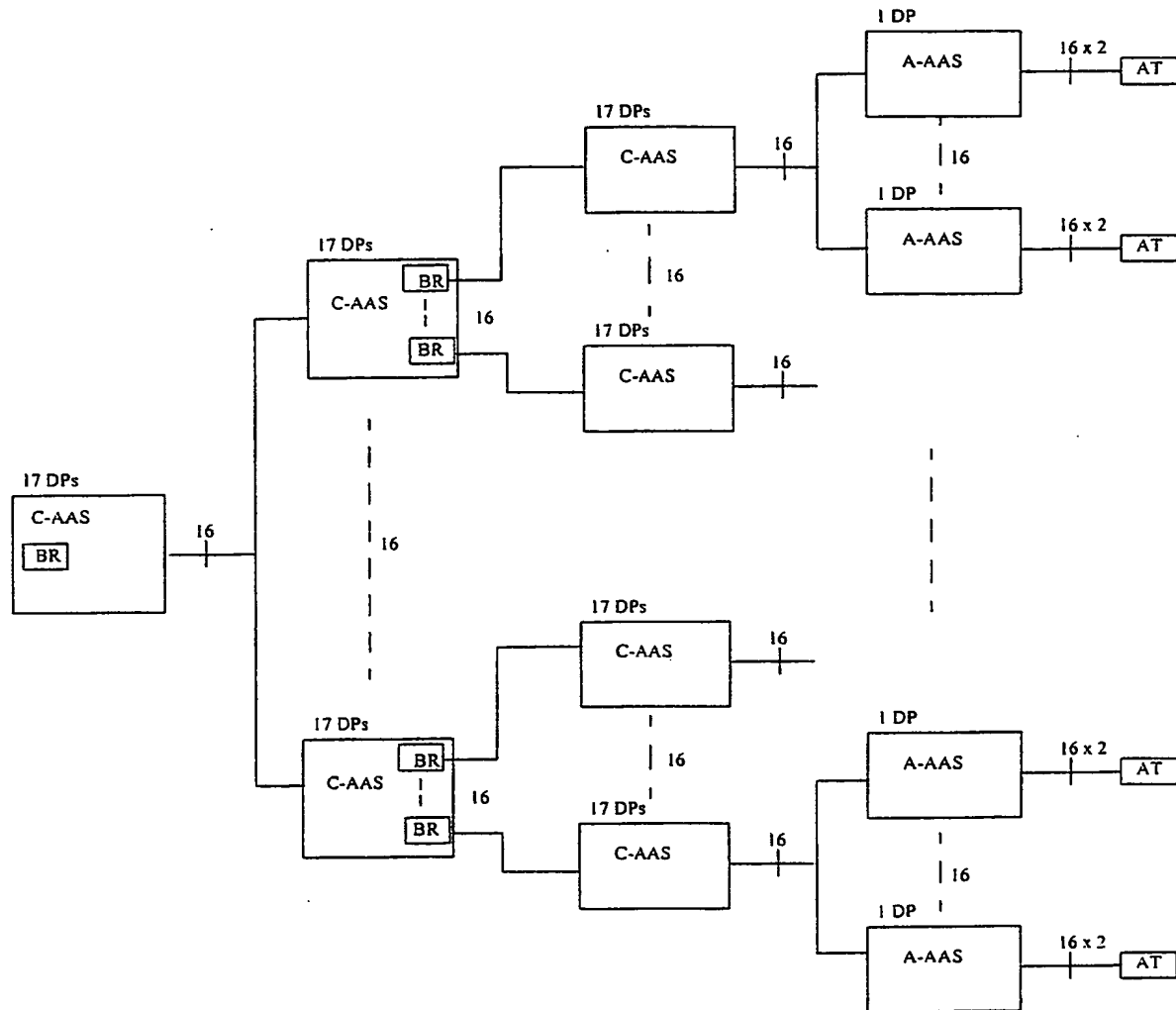


BR-board placing (example 1) : the ET-master in the first C-AAS relays messages to all the other boards of the System Node (three levels of shelves).

$DPs = 17 + (16 \times 17) + (16 \times 16) = 545$
 DPs directly connected to CP = 1 (i.e. the BR)
 DPs handled by the unique BR = 544
 ADSL users = $(16 \times 16) \times 16 \times 2 = 8192$

FIG. 6

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BR-boards placing (example 2): the ET-master in the first C-AAS relays messages to all the other boards of the shelf and to the master of the second level C-AASs; the other boards of the second level C-AASs act as BR relaying messages to ALL the DPs below them.

$$\text{DPs} = 17 + (16 \times 17) + (16 \times 16 \times 17) + (16 \times 16 \times 16) = 8737$$

$$\text{DPs directly connected to CP (i.e. BRs)} = 1 + (16 \times 16) = 257$$

$$\text{DPs handled by each BR of the second level C-AAS} = 17 + 16 = 33$$

$$\text{ADSL users} = (16 \times 16 \times 16) \times 16 \times 2 = 131072$$

FIG. 7

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